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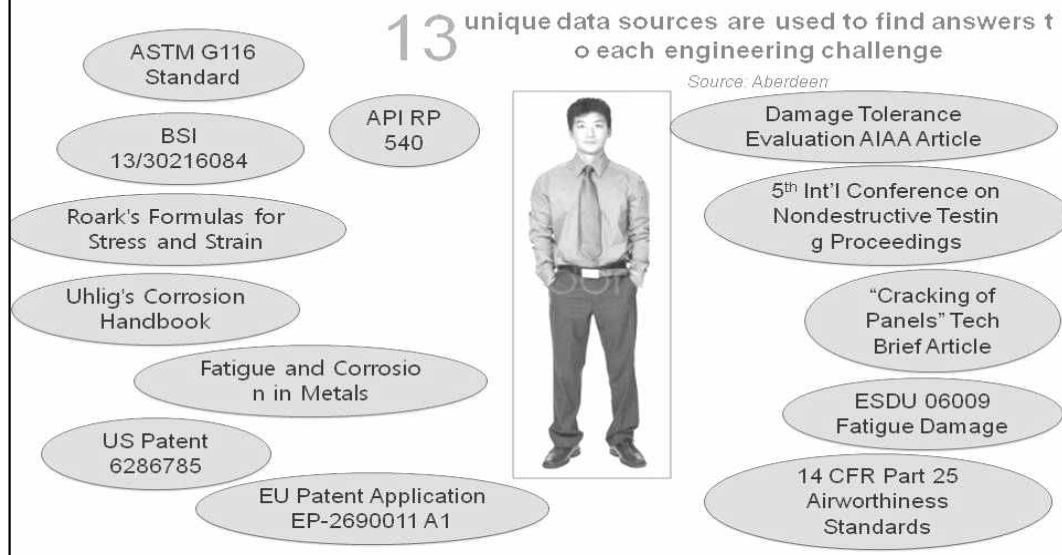
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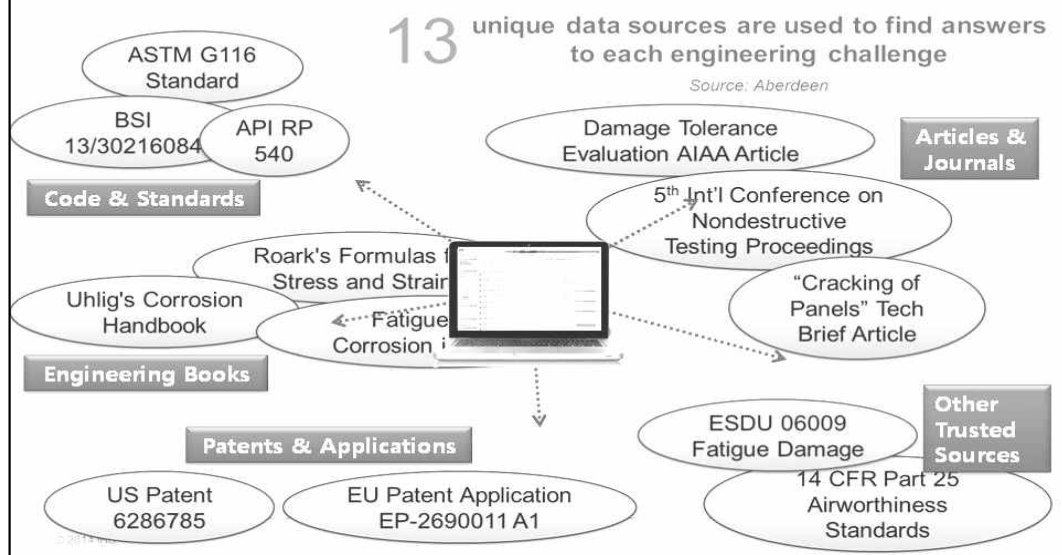
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접근 가능한 공학 전문 자료들은 갈수록 늘어나는데,
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1 Chapter	검색 Contents 구성
2 Chapter	검색 Contents 상세
3 Chapter	Search Engine: Goldfire
4 Chapter	시 연




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1
Chapter

검색 Contents 구성

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Proprietary IHS sources such as ESDU (design principles & best practices), Jane's (A&D insights), CyberRegs and EIATRACK (regulations), GlobalSpec (engineering data & forum), Scientific Effects & more



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| <ul style="list-style-type: none"> • Perry's Chemical Engineers' Handbook • Marks' Standard Handbook for Mechanical Engineers • Roark's Formulas for Stress and Strain • Advanced MEMS Packaging • Energy Systems Engineering | <ul style="list-style-type: none"> • Machinery's Handbook • Basic Corrosion Technology for Scientists and Engineers • Engineering Composite Materials • Metallography and Welding • Worked Examples in Quantitative Metallography |



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Articles

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| IEEE Articles
Abstract | Institute of Electrical and Electronic Engineers |
| SAE International
Abstract | Society of Automotive Engineers
자동차 공학회 |
| ASTM International
Abstract | American Society for Testing and Materials
미국 재료시험학회 |
| ASM International
Abstract | American Society for Metals
미국 금속학회 |
| Techniques de l'ingénieur
Abstract | 프랑스 최대의 과학 기술 자료 DB. 매년 소속 편집진이 수백 권의 자료집을 출간. 자료집은 보통 수천 장의 PDF 형태로 제공되며, 공학 전문가를 다루고 있음. |



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Articles - Original Documents

OSTI.gov

Full Text

Department of Energy (DOE)가 수집한 정보 및 지원하는 프로젝트 산출물과 관련된 Technical Paper, Articles, Conference Paper 등의 자료

ScienceAccelerator.gov (R&D from DOE resources), Science.gov (from 14 federal agencies), WorldWideScience.org (65 countries)

Tech Briefs Articles

Full Text

NASA Tech Briefs. NASA와 협력업체들의 공학 기술문서 모음집. Electronics, Physical Sciences, Materials, S/W, Machinery/Automation, Manufacturing, Mathematics, Information Sciences, Life Sciences

Arxiv.org Articles

Full Text

Cornell Univ. Library. 830,000건 이상의 e-Prints in Physics, Mathematics, Computer Science, Biology, Finance, Statistics.

Univ. Washington DSpace

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Washington Univ. 15,000 건 이상의 연구데이터 및 보고서, 논문 등의 연구자료

DSpace@ MIT Articles

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MIT의 디지털 연구 자료를 모아놓은 25,000 개 이상의 Conference papers, Articles, Reports



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Patents

검색 가능 특허 현황

- 미국 특허권 (USPTO) : 1971~현재
미국 특허출원 (USPTO) : 2001~현재
- EU 특허권 (EPO) : 1981~현재
EU 특허출원 (EPO) : 1988~현재
- 영국 특허권 (UK-IPO) : 1970~현재
영국 특허출원 (UK-IPO) : 1979~현재
- 독일 특허권 (GPTO) : 1980~현재
독일 특허출원 (GPTO) : 1970~현재
독일 실용신안 (GPTO) : 1980~현재

- 프랑스 특허권 (INPI) : 1985~현재
프랑스 특허출원 (INPI) : 1976~현재
- 일본 특허권 (JPO) : 1993~현재
일본 특허출원 (JPO) : 1994~현재
일본 특허초록 (JPO) : 1976~현재
- 국제 특허권 (WIPO) : 1978~현재



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3
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Search Engine: Goldfire

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Patent Summary

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More Detail

**Unique Concept Lenses
to get Answers**

+

Synonyms & Ontology
(ex: acceleration = speedup, quickening, speeding-up)

단순한 Text Searching 기반의 검색결과가 아닌, 사용자의 질문 의도를 파악하여 질문에 대한 해답을 제시

방대한 양의 기술 정보 연계 뿐만 아니라, 어느 곳에서도 찾아볼 수 없는 Deep Web Data와 IHS Scientific Effects.

단순 축약이 아닌 해당 문서의 핵심 내용만을 간추려 보여주는 Summary 기능은 5단계의 Detail을 사용자가 원하는 대로 설정 가능할 뿐만 아니라 5개 국어 간 자유로운 번역 기능을 제공

Definitions, Advantages, Methods, Parameters,...
70여 개의 Concept Lenses (검색결과 분류)

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*** CUSTOMER SUCCESS STORY ***

Samsung Saves \$77M and Increases Market Share with Goldfire

Samsung Electronics has gone from being a maker of commodity electronics to one of the world's hottest brands. With \$55 billion in sales, Samsung maintains its technology and design leadership through a strong R&D commitment to new growth from differentiated products. Samsung used Invention Machine's Goldfire software to create an innovative new design for the optical pickup components of its CD/DVD recorder/players. The resulting design increased Samsung's CD-DVD market share by reducing component and manufacturing costs saving \$77.7 million dollars over a three year time period while also improving product reliability.

Market and Project Background
Samsung wanted to strengthen its leadership position in the DVD market by designing a breakthrough solution that would significantly reduce costs while maintaining or improving overall product reliability and functionality. This case study chronicles the process and results of the SELLINO project the fourth in a series of "extreme trial" projects chartered to decrease costs through innovative new product design.

How Goldfire Helped
Optical pickups are used in CD and DVD devices to perform data



Fast Facts

Industry
Electronics/High Tech

Headquarters
Seoul, South Korea

Challenge
CD-DVD players required two optical pick-ups making them expensive and more prone to failure.

Solution
Used Goldfire to develop a patentable solution using a single pick-up for both CD and DVD.

Benefits
By combining the 2 laser

제작공정 생산성이 38% 증가했으며, CD-DVD 플레이어 한대 당
순 제작비용이 \$3.7 감소해 모두 7,700만 달러의 비용절감 효과를
볼 수 있었다.

functions of the trimmed components.

They first turned to Invention Machine's proprietary content to stimulate creative out-of-box thinking. The library of Inventive Principles provided conceptual insights on how analogous technical challenges had been solved in the past. The principles stimulate creative thinking regarding contradictions such as how a single set of optical components might deliver the conflicting CD-DVD requirements.

The engineers also consulted Goldfire's library of System Modification Patterns. The patterns are recommendations, abstracted from analysis of patent literature, for alternative configurations that optimize interactions between system elements or measurement techniques.

In-house bonding points and reduced. Productivity of the manufacturing process increased by 38%.

Samsung realized a net cost saving of \$3.70 per CD-DVD player. Total savings realized was \$77.7 million.

The new designs expanded Samsung's intellectual property portfolio by a total of 13 patents.





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Armed with these creative insights, the SELLINO team was ready to pursue detailed research into prior art, internal corporate knowledge bases, and the expertise encoded in worldwide patent literature.

Using Goldfire's semantic indexing and natural language queries, the team quickly retrieved concepts relevant to their challenge. Queries such as "How to emit light of two different wavelengths?" or "How to combine CD and DVD optical pickups?" returned document lists highlighting the sentences that described the precise functional requirement. In just hours the team mined the expertise of millions of patents and leveraged technical know-how from years of Samsung's internal corporate documents.

The team also used Goldfire's semantic text summarization capabilities to expedite the process of assessing document relevance and extracting pertinent concepts. A list of potential solutions and concepts worthy of consideration was quickly assembled and organized by the software's Solution

Goldfire Usage Highlights

Samsung followed an ideation process leveraging Invention Machine software with its semantic knowledge engine and integrated problem analysis tools automating proven methodologies from value engineering and inventive problem solving:

- Stimulation of creative thinking from specialized ideation libraries
- Concept development via semantic analysis of internal & external expertise
- Formal ranking & selection of best ideas

Using Goldfire to review and protect new intellectual prop-




자연어 검색 기능의 도움
"How to emit lights of two different wavelengths?"
"How to combine CD and DVD optical pickups?"
Summary 기능을 이용하여 특허 정보 취득

Summary of Project Results
The SELLINO project achieved a more ideal design which improved reliability of the CD-DVD device complexity. By combining the two laser diodes in number of lenses from six to four, the project achieved cost reduction in components. Reliability was increased by 33% as the number of manufacturing bonding points was reduced from 38 to 26. And


Goldfire를 이용한 새로운 디자인으로 미국 특허 13개를 획득할 수 있었습니다.

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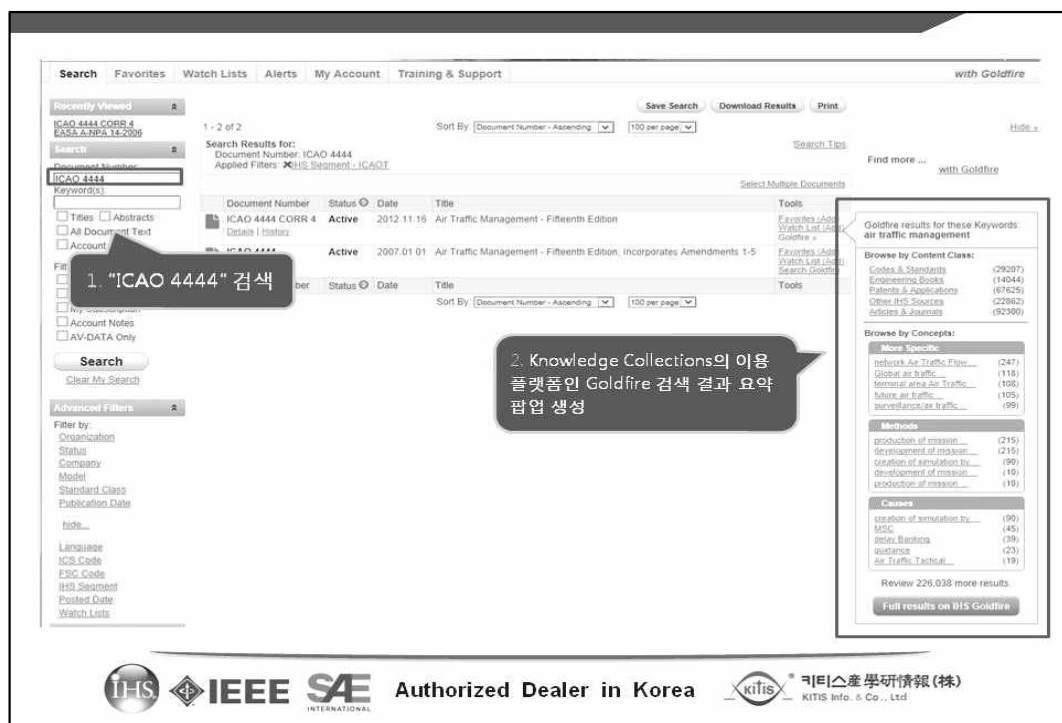
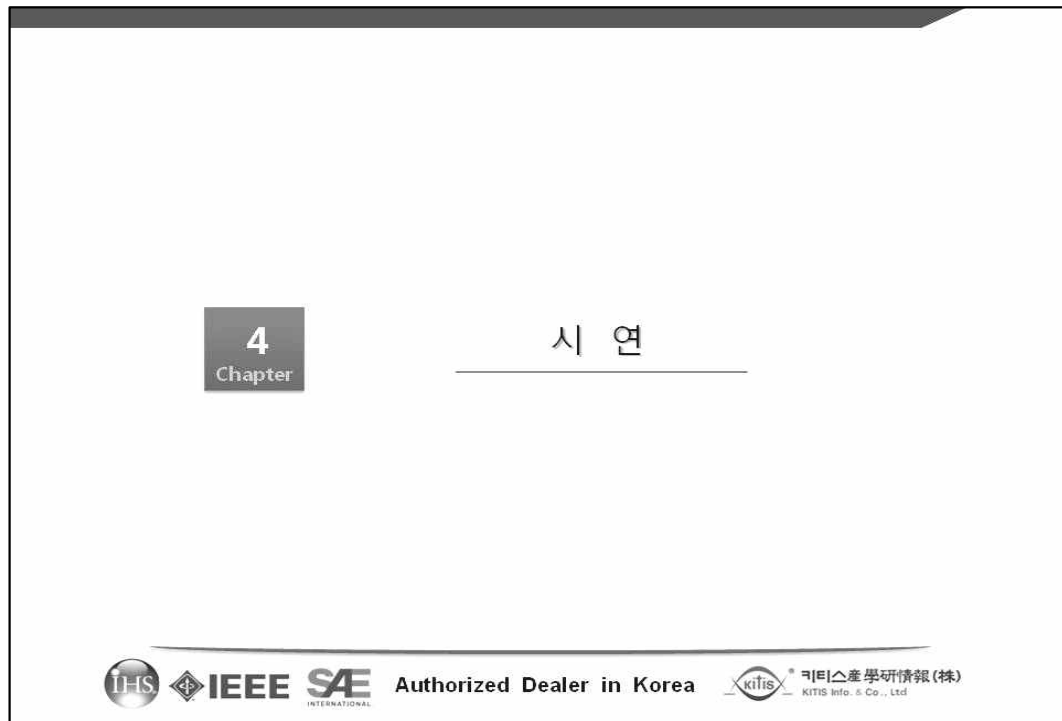
Global 2000 manufacturers in more than 40 countries rely on Invention Machine's Goldfire platform for product innovation, process improvement and market expansion. For additional information, please visit

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1. Standards Expert에서 "ICAO 4444"으로 검색했으나 해당 문서의 핵심 키워드로 자동 변환되어 검색

2. Codes & Standards 29,207 건
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Article 92,300 건

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226,039 results

1. ICAO 4444 - Air Traffic Management Standards Expert
Provisions governing and in Chapter 3, 3.2.5.1
Save Summary 5 Similar Documents

2. ICAO 4444 - Process Management Standards Expert
provision of air traffic advisory service, the procedures in Section 8.2 for the use of radar in the air traffic control service shall be applied subject to the conditions and limitations governing the provision of air traffic advisory service, as set.
Save Summary 4 Similar Documents

3. ICAO 9971 - Manual on Collaborative Air Traffic Flow Management Standards Expert
6.1.1 ATFM measures are techniques used to manage air traffic demand according to system capacity.
Save Summary

4. Quantitative Problem Solving Methods in the Airline Industry Springer eBooks
Air Traffic Flow Management
Save Summary

5. ICAO 9623 - Special Committee for the Monitoring and Co-Ordination of Development and Transition Planning for the Future Air Navigation System (FANS Phase II) Fourth Meeting - Report

Refine your search results

General Facts | Parts and Functions | Parameters | Causes and Effects | People & Roles

General facts about: air traffic management

Definitions	More Specific
result of progressive evolution of Procedure (8)	network Air Traffic Flow Management (247)
service complementary to ATC (7)	Global air traffic management (116)
service (6)	terminal area Air Traffic Management (108)
normal process in busy area (5)	future air traffic management (105)
surface wind direction (4)	surveillance/air traffic management (99)

Concepts	Advantages
air traffic management system (1,518)	improvement of traffic flow across United (16)
air traffic flow management algorithm (266)	avoidance of overtaking situation (2)
Air Traffic Flow Management addressing (260)	avoidance of Vectoring from top of descent (2)
air traffic management researcher (184)	avoidance of Holding from top of descent (2)
air traffic flow management literature (163)	elimination of congestion in sky (2)

Disadvantages	Applications
operational problem removed by FABCE (2)	safe separation of aircraft (13)
very expensive (1)	airspace (12)
failure of FAA Air Traffic Service (1)	allowing of two-way communication with ai (10)

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1. Summary 기능을 통해 해당 자료가 검색자가 원하는 자료인지를 빠르게 판단 가능

2. 5단계의 상세도 조절

3. 5개 국어 번역기능

Patent Summary

Less Detail | More Detail

Translated from German to English

DE-102009055044 A1

Title: Method and device for prevention of an accidental acceleration of a vehicle

The invention relates to a method for prevention of an accidental acceleration of a vehicle, by which a drive train of the vehicle of a drive assembly (1), becomes in particular an electric motor driven while a drive driving apparatus (4, 5) controls a driving circuit of (2) the drive assembly (1) whereas the drive driving apparatus (4, 5) on errors is monitored which guides for an accidental movement of the vehicle and the drive driving apparatus switches off the driving circuit of the drive assembly by determination of an error in the drive control instrument (4, 5) (4) (2) (1). The [0001] invention relates to a method for the prevention of an accidental acceleration of a vehicle by which a drive train of the vehicle of a drive assembly, in particular an electric motor, is driven while a drive driving apparatus controls a driving circuit of the drive assembly and the drive driving apparatus on errors is monitored whereas, which guides for an accidental movement of the vehicle and the drive driving apparatus switches off the driving circuit of the drive assembly by determination of an error in the drive control instrument, as well as a device for implementation of the method A [0013] further education of the invention relates to a device for prevention of an accidental acceleration of a vehicle by which a drive train of the vehicle of a drive assembly, in particular an electric motor, is driven while a drive driving apparatus controls a driving circuit of the drive assembly whereas the drive driving apparatus on errors is monitored which guides for an accidental movement of the vehicle and the drive driving apparatus places the driving circuit of the drive assembly by determination of an error in the drive control instrument.

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Translate into: German Chinese (Simplified) English French Japanese

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1. "What is Optic flow"자연어 검색

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697,727 results

1. Three-Dimensional Scene Flow
Deep Web
two-dimensional motion field of points
Scene flow is the three-dimensional motion field of points in the world, just as optical flow is the two-dimensional motion field of points in an image.
Save Summary 2 Similar Documents

2. Efficient multiscale computation of optical flow
Deep Web
quantity
Optical flow, the apparent velocity vector field corresponding to the observed motion of brightness patterns in successive image frames, is an important quantity in a variety of problems.
Save Summary 2 Similar Documents

3. http://dspace.mit.edu/bitstream/handle/1721.1/3315/P-2175-26187093.pdf?sequence=1
DSpace@MIT Articles
quantity
Optical flow, the apparent velocity vector field corresponding to the observed motion of brightness patterns in successive image frames, is an important quantity in a variety of problems.
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4. Semantic Models for Multimedia Database Searching and Browsing
Springer eBooks
input to level vision algorithm performing task

2. 질문에 대한 최적의 결과 카테고리 활성화

3. 검색어에 가장 적합한 결과 카테고리 자동 제시.
ex) Optic Flow의 장단점

General facts about: what is optic flow

Answers	Definitions
zero (51)	patterned visual motion seen by moving o (20)
three corner points (42)	movement vector (17)
three feature points (21)	vector (17)
patterned visual motion seen by moving o (20)	motion field (15)
movement vector (17)	vector field (14)

More

More Specific	Concepts
dense optical flow (449)	optical flow estimation (2,096)
estimated optical flow (285)	optical flow field (1,931)
Determining optical flow (184)	optical flow method (1,925)
sparse optical flow (125)	optical flow computation (1,685)
displacement optical flow (123)	optical flow technique (1,566)

More

Advantages	Disadvantages
obstacle avoidance (23)	computationally expensive (7)
useful in pattern recognition (5)	error (6)
avoidance of obstacle (5)	foreshortening problem (4)
useful in computer vision (5)	expensive (3)

IHS IEEE SAE Authorized Dealer in Korea KITIS 킷이스產學研情報(株) KITIS Info. & Co., Ltd

1. "How to increase the precision of optic flow"자연어 검색

Found in Content Classes: ☒ Codes & Standards 2,652 ☒ Engineering Books 5,684 ☒ Patents & Applications 29,961 ☒ Other IHS Sources 276 ☒ Articles & Journals 16,563 All

55,136 results

1. US-8395859 B2 Moving obstacle detection using images
U.S. Granted Patents
optical flow determination module modifying optical flow
In one embodiment, the optical flow determination module 154 also modifies the calculated optical flow.
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2. US-8351653 B2 Distance estimation from image motion for moving obstacle detection
U.S. Granted Patents
optical flow determination module modifying optical flow
In one embodiment, the optical flow determination module 154 also modifies the calculated optical flow to increase the density or accuracy of the calculated optical flow.
Save Summary 2 Similar Documents

3. US-20130002854 A1 MARKING METHODS, APPARATUS AND SYSTEMS INCLUDING OPTICAL FLOW-BASED DEAD RECKONING FEATURES
U.S. Patent Applications
optical flow calculation performed on camera system data

2. Optical flow module의 변경을 통한 정확도 향상 관련 특허

3. 정확도 향상을 위한 방법들

General facts about: how to increase the precision of optic flow

Answers	Concepts
modification of optical flow by optical flow d (5)	increased accuracy dense optical flow algorithm (2)
optical flow determination module modifying (5)	
increase of sample point (3)	
optical flow calculation performed on camera (2)	
optical flow calculation on camera system data(2)	

More

Methods
modification of optical flow by optical flow d (5)
increase of sample point (3)
optical flow calculation on camera system data(2)

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1. 원문접근 가능 결과만 표시 옵션
타이틀 검색 옵션

2. 검색 결과 자료 유형 필터링 기능

3. 원문 접근을 위한 별도 로그인 필요 표시 기능

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EN • what are alternatives of GPS

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207,284 results

Next generation marine precision navigation system
IEEE Articles

covert

US-8511626 B1 Mounting assembly for a GPS
U.S. Granted Patents

FIG. 7 is an exploded perspective view of an alternative embodiment of a GPS device with a removable visor of the present invention, comprising a GPS unit having three hollow receptacles on its top front side, and a visor having two clips...

US-20120113521 A1 GPS VISOR
U.S. Patent Applications

FIG. 7 is an exploded perspective view of an alternative embodiment of a GPS device with a removable visor of the present invention, comprising a GPS unit having three hollow receptacles on its top front side, and a visor having two clips...

US-20100254014 A1 GPS visor
U.S. Patent Applications

FIG. 7 is an exploded perspective view of an alternative embodiment of a GPS device with a removable visor of the present invention, comprising a GPS unit having three hollow receptacles on its top front side, and a visor having two clips...

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General Facts Parts and Functions Parameters Causes and Effects People & Roles

General facts about: what are alternatives of GPS

Answers	Definitions
covert (1)	covert (1)

More Specific	Concepts
ground-based GPS alternative (7)	alternative GPS system (35)
local GPS alternative (7)	alternative GPS message format (15)
current GPS alternative (4)	alternative GPS receiver architecture (15)
Airborne GPS augmentation alternative (2)	alternative GPS sensor (12)
Precise airborne GPS Positioning alternative (2)	alternative GPS Receiver Configuration (11)

Advantages
avoidance of need (1)

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